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(54) **CONTOURED STOWABLE SEAT**
PROFILIERTER UMKLAPPBARER SITZ
SIÈGE ESCAMOTABLE PROFILÉ

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(73) Proprietor: **AMI Industries, Inc.**
Colorado Springs, CO 80916 (US)

(72) Inventor: **Ferguson, Keith M.**
Colorado Springs, CO Colorado 80920 (US)

(74) Representative: **Dehns**
St. Brides House
10 Salisbury Square
London EC4Y 8JD (GB)

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Description

FIELD

[0001] The present disclosure relates to stowable seats, and more specifically, to a contoured stowable seat having a contoured backrest.

BACKGROUND

[0002] Aircraft cabin seats are used for flight attendant safety and comfort during taxi, takeoff, landing, and in-flight rest periods. Useable volumetric space on an aircraft may be limited and seats should not hinder ingress and egress for passengers in the event of an emergency. Aircraft cabin seats may therefore be stowed during flight and when not in use. Typical aircraft cabin seats are metallic in nature with flat backrest and seat pan frames, and contoured foam cushions placed on the frame surfaces. In order to comply with post-crash tests and to keep aisle space open and clear, aircraft cabin seats may have capabilities to completely close when stowed, and remain closed in the event of a crash. Post-crash test closures may be difficult to achieve due to the metallic frames deforming during a crash, and because of the restraint belts and buckles being sandwiched between the foam cushions in the seat pan and backrest areas.

[0003] DE 86 23 246 U1 discloses a stowable seat as set forth in the preamble of claim 1.

[0004] US 4,460,215 A discloses a folding seat assembly.

SUMMARY

[0005] From a first aspect, the invention provides a stowable seat as recited in claim 1.

[0006] In various embodiments, the stowable seat may further comprise a tension cord having a first end and a second end. The first end may couple to the housing and the second end may couple to the stretch material of the contoured backrest.

[0007] In response to the seat pan pivoting into the deployed position, the tension cord may be configured to deploy the contoured backrest into a second contoured shape by imparting tension to a location where the second end is coupled to the contoured backrest.

[0008] The seat pan and the contoured backrest may be configured to stow at least partially in the housing in response to the seat pan being in the stowed position.

[0009] A contoured pad may couple to an axially outer surface of the stretch material of the contoured backrest.

[0010] The frame of the contoured backrest may couple to the housing at the first position via a slidable joint, allowing the contoured backrest to slide relative to the housing in response to the seat pan pivoting into the deployed position.

[0011] A headrest may couple to the top of the housing.

[0012] The frame further may also comprise a flex point

configured to bend in a direction away from the housing, in response to the seat pan pivoting into the deployed position.

[0013] A seat restraint may couple to the housing.

[0014] The invention also provides a method of operating the seat as recited in claim 10.

[0015] The forgoing features and elements may be combined in various combinations without exclusivity, unless expressly indicated herein otherwise. These features and elements as well as the operation of the disclosed embodiments will become more apparent in light of the following description and accompanying drawings.

BRIEF DESCRIPTION OF THE DRAWINGS

[0016] The subject matter of the present disclosure is particularly pointed out and distinctly claimed in the concluding portion of the specification. A more complete understanding of the present disclosure, however, may best be obtained by referring to the detailed description and claims when considered in connection with the following illustrative figures. In the following figures, like reference numbers refer to similar elements and steps throughout the figures.

FIG. 1A illustrates a perspective view of a contoured stowable seat in a stowed position, in accordance with various embodiments;

FIG. 1B illustrates a perspective view of a contoured stowable seat in a deployed position, in accordance with various embodiments;

FIG. 2 illustrates a perspective view of a contoured stowable seat, in accordance with various embodiments;

FIG. 3 illustrates a perspective view of a contoured backrest having a back cushion, in accordance with various embodiments; and

FIG. 4 illustrates a side view of a contoured stowable seat in a deployed position further comprising a tension cord, in accordance with various embodiments.

[0017] Elements and steps in the figures are illustrated for simplicity and clarity and have not necessarily been rendered according to any particular sequence. For example, steps that may be performed concurrently or in different order are illustrated in the figures to help to improve understanding of embodiments of the present disclosure.

DETAILED DESCRIPTION

[0018] In various embodiments, and with reference to FIGs. 1A and 1B, a contoured stowable seat 100 is disclosed. Contoured stowable seat 100 may be configured to provide a contoured backrest allowing for easier closure of a post-crash seat. Contoured stowable seat 100 may enable an easier closure of a post-crash seat by eliminating potential binding caused by metallic deforma-

tion of a metallic backrest frame. In this regard, contoured stowable seat 100 may comprise a stretch fabric or mesh material. In the stowed position, the use of a stretch fabric or mesh material may allow contoured stowable seat 100 to form a recessed pocket (e.g., as the contoured backrest goes slack), providing additional room for restraint buckles and/or a seat pan foam cushion. By providing additional room during stowage, contoured stowable seat 100 may also allow for a narrower seat in the stowed position, as less volumetric space may be needed to contain the restraint buckles and/or seat pan foam cushion. Moreover, contoured stowable seat 100 may also allow for a lighter weight backrest compared to typical stowable seats, and may also enable better lumbar support and comfort.

[0019] In various embodiments, contoured stowable seat 100 may comprise a housing 102, a plurality of feet 104, a headrest 106, a seat pan 108, and a contoured backrest 110. With reference to FIG. 1A, contoured stowable seat 100 is depicted in a stowed position with contoured backrest 110 and seat pan 108 partially stored within housing 102. Housing 102 may provide structural support to contoured stowable seat 100. Housing 102 may comprise any suitable type of material capable of providing structural support, such as, for example, machined aluminum. Housing 102 may also be reinforced to provide additional structural support, such as, for example, through the use of aluminum side spars. Feet 104 may be coupled to the bottom of housing 102, and may protrude downward from housing 102. Feet 104 may also provide a mounting point to mount contoured stowable seat 100 to a surface, such as, for example, an aircraft floor.

[0020] In various embodiments, seat pan 108 may be pivotably coupled to housing 102 such that seat pan 108 may pivot in a direction towards housing 102 in a stowed position, and in a direction away from housing 102 in a deployed position. In this regard, seat pan 108 may pivot into a position proximate contoured backrest 110 while in the stowed position. Contoured stowable seat 100 in the stowed position may occupy less space than contoured stowable seat 100 in the deployed position. Contoured stowable seat 100 may be stowed to conserve useable volume in an aircraft or other application where space may be limited. With reference to FIG. 1B, contoured stowable seat 100 is depicted in the deployed position. In this regard, seat pan 108 may be configured to pivot in a direction away from housing 102 to a deployed position substantially perpendicular with housing 102. Seat pan 108 may comprise any suitable type of seat. For example, seat pan 108 may comprise a bench seat, a bucket seat, a cushioned seat, and/or any other suitable type of seat.

[0021] In various embodiments, headrest 106 may be coupled to the top of housing 102 in a location proximate contoured backrest 110, and may protrude in a direction upward from housing 102. Headrest 106 may be configured to provide support to the head of a passenger sitting

on contoured stowable seat 100 while in the deployed position. Headrest 106 may comprise any suitable type of head rest. For example, headrest 106 may comprise a substantially flat surface. Headrest 106 may also comprise a cushioned material. In various embodiments, headrest 106 may also be adjustable, allowing for movement away from, and back towards, housing 102.

[0022] In various embodiments, a seat restraint 190 may be configured to secure a passenger sitting in contoured stowable seat 100. Seat restraint 190 may comprise any suitable type of seat belt or restraint system and/or mechanism. Seat restraint 190 may be coupled at a first end to housing 102 at a position above contoured backrest 110, and at a second end to housing 102 at a position below contoured backrest 110, such as, at the position seat pan 108 pivotably couples to housing 102. Seat restraint 190 may also be coupled at the second end to seat pan 108.

[0023] In various embodiments, contoured backrest 110 may couple to housing 102 at a first position proximate to headrest 106, and at a second position proximate to seat pan 108. Contoured backrest 110 may couple to housing 102 using any suitable technique, such as, for example, through a pivot joint. Contoured backrest 110 may also couple to housing 102 at the first position through a slidable joint. In this regard, the slidable joint may enable contoured backrest 110 to move towards the headrest 106 when in the stowed position, and slide towards feet 104 when in the deployed position. Use of the slidable joint may therefore allow contoured backrest 110 to slide down when contoured backrest 110 is in a stretched, contoured position (the deployed position), and slide back when contoured backrest 110 is in a relaxed position (the stowed position).

[0024] In various embodiments, and with reference to FIG. 2, contoured backrest 110 is depicted in greater detail. Contoured backrest 110 may comprise a frame 114 and a stretch backrest 112. Frame 114 may be configured to provide structural support to contoured backrest 110. Frame 114 may comprise a full hoop design, defining the entire outer edges of contoured backrest 110. Frame 114 may also comprise a partial design, such as two parallel frames, defining only the outer sides of contoured backrest 110. Frame 114 may comprise any suitable material capable of providing structural support. For example, frame 114 may comprise aluminum, carbon fiber, and/or an injection molded plastic.

[0025] In various embodiments, frame 114 may comprise a flex point 116. Flex point 116 may comprise a portion of frame 114 that has been weakened to allow frame 114 to bend in a direction away from housing 102, such as when contoured stowable seat 100 is in the deployed position. Flex point 116 may comprise a portion of frame 114 that is weakened to allow the partial bending of frame 114, but not weakened to the point that frame 114 may easily break while bending. In this regard, flex point 116 may comprise a portion of frame 114 that has been weakened by deformation, thinning of material,

notching of the surface, and/or through any other suitable technique.

[0026] In various embodiments, stretch backrest 112 may be coupled to frame 114. Stretch backrest 112 may couple to frame 114 using any suitable technique. For example, stretch backrest 112 may be coupled to frame 114 using a fastener, adhesive, and/or the like. In various embodiments, frame 114 may comprise an interior channel configured to receive stretch backrest 112. In this regard, stretch backrest 112 may be inserted and crimped within the interior channel of frame 114, coupling stretch backrest 112 to frame 114. Stretch backrest 112 may comprise any suitable material. For example, stretch backrest 112 may comprise a flame retardant mesh material. Stretch backrest 112 may also comprise a nylon mesh material, a two-way stretch material, and/or any other suitable material. For example, stretch backrest 112 may comprise an elastomeric fiber material such as Lycra®, Spandex, and/or Elastane.

[0027] In various embodiments, contoured stowable seat 100 may also comprise a deployment lever 120 configured to deploy contoured backrest 110 into a contoured shape when seat pan 108 is in a deployed position. Deployment lever 120 may be coupled to housing 102 at a proximate position below contoured backrest 110. Deployment lever 120 may be coupled to housing 102 using a pivot joint, or other such similar mechanism allowing rotational movement of deployment lever 120 while coupled to housing 102. Deployment lever 120 may comprise any suitable shape and size capable of deploying contoured backrest 110 into a contoured shape. In this regard, deployment lever 120 may comprise a wish-bone shape, or any other suitable shape having an angle.

[0028] In various embodiments, deployment lever 120 may comprise a first deployment end 122 and a second deployment end 124. First deployment end 122 may be coupled to seat pan 108. In this regard, first deployment end 122 may be coupled to seat pan 108 such that first deployment end 122 may rotatably move with seat pan 108 when contoured stowable seat 100 is in the deployed and/or the stowed position. Second deployment end 124 may be configured as a mechanism to deploy contoured backrest 110 into a contoured shape. In this regard, second deployment end 124 may be located in close proximity to frame 114. In response to seat pan 108 being in the deployed position, second deployment end 124 may be pushed into contact against frame 114, forming contoured backrest 110 into a contoured shape. In various embodiments, contact from second deployment end 124 against frame 114 may also cause flex point 116 to bend in a direction away from housing 102, creating further contour on contoured backrest 110. In response to seat pan 108 being in a stowed position, second deployment end 124 may be moved away from frame 114 (towards housing 102) such that contoured backrest 110 may form into a relaxed shape.

[0029] In various embodiments, and with reference to FIG. 3, a contoured backrest 310 may also be configured

to comprise a contoured pad 380. Contoured pad 380 may be coupled to the outer surface of contoured backrest 310. In this regard, contoured pad 380 may be coupled to the outer surface of stretch backrest 112, in a position away from housing 102. Contoured pad 380 may be coupled to the outer surface of stretch backrest 112 using any suitable technique. For example, contoured pad 380 may be coupled to the outer surface of stretch backrest 112 using an adhesive, through stitching, and/or through any other suitable method. Contoured pad 380 may comprise any suitable material and/or coating. For example contoured pad 380 may comprise a foam cushion. Contoured pad 380 may also be covered with any desired material, such as cloth, leather, and/or the like.

[0030] In various embodiments, and with reference to FIG. 4, a contoured stowable seat 400 may further comprise a tension cord 430. Tension cord 430 may comprise a first tension end 432 and a second tension end 434. First tension end 432 may be configured to couple to housing 102, using any suitable technique known in the art, such as via a pivot joint. First tension end 432 may couple to any desirable location on housing 102. Second tension end 434 may be configured to couple to contoured backrest 110 at any desired location, using any suitable technique known in the art. Second tension end 434 may couple to any desirable location on contoured backrest 110. Tension cord 430 may comprise any suitable material capable of imparting tension in response to contoured stowable seat 400 being in a deployed position. In this regard, tension cord 430 may comprise a pulley cord and/or other similar material having elastic properties.

[0031] In various embodiments, tension cord 430 may be configured to reinforce and provide additional contour to contoured backrest 110. In this regard, in response to contoured stowable seat 400 being in a deployed position, tension cord 430 may impart tension in the proximate area where second tension end 434 is coupled to contoured backrest 110, pulling that proximate area of contoured backrest 110 towards housing 102. In response to contoured stowable seat 400 being in a stowed position, tension cord 430 may release the tension and enable contoured backrest 110 to return to a slack form. Tension cord 430 may therefore provide further contour to contoured backrest 110 by imparting tension to desired areas of contoured backrest 110. In this regard, tension cord 430 may be used to provide greater lumbar support by forming additional contour in the lumbar region of contoured backrest 110. Tension cord 430 may also be used to provide more side bolstering to contoured backrest 110, or less predominance to contoured backrest 110. Tension cord 430 may also be used in the upper thoracic area to provide relief for shoulder blade support, or may be used in the lower center of contoured backrest 110 to provide relief for tailbone support.

Claims

1. A stowable seat (100; 400), comprising:

a housing (102) having a top and a bottom;
a seat pan (108) pivotably coupled to the housing (102) at a position between the top and the bottom, wherein the seat pan (108) is configured to pivot from a stowed position into a deployed position; and a deployment lever (120) having a first deployment end (122) and a second deployment end (124); **characterised in that** the stowable seat (100; 400) is contoured and further comprises:

a contoured backrest (110; 310) comprising a frame (114) and a stretch material (112), wherein the stretch material (112) is coupled to the frame (114) and the frame (114) defines an axially outer edge of the stretch material (112), and wherein the frame (114) is coupled to the housing (102) at a first position proximate the top of the housing (102) and at a second position proximate where the seat pan (108) couples to the housing (102);

wherein the first deployment end (122) of the lever (120) is coupled to the seat pan (108) at a location proximate the coupling of the seat pan (108) to the housing (102), and wherein the second deployment end (124) is configured to contact the frame (114) of the contoured backrest (110; 310) in response to the seat pan (108) being in the deployed position, causing the contoured backrest (110; 310) to deploy into a contoured shape.

2. The stowable seat of claim 1, further comprising a tension cord (430) having a first end (432) and a second end (434), wherein the first end (432) is coupled to the housing (102) and the second end (434) is coupled to the stretch material (112) of the contoured backrest (110; 310).

3. The stowable seat of claim 2, wherein in response to the seat pan (108) pivoting into the deployed position, the tension cord (430) is configured to deploy the contoured backrest (110; 310) into a second contoured shape by imparting tension to a location where the second end (434) is coupled to the contoured backrest (110; 310).

4. The contoured stowable seat of any of claims 1 to 3, wherein the seat pan (108) and the contoured backrest (110; 310) are configured to stow at least partially in the housing (102) in response to the seat pan (108) being in the stowed position.

5. The contoured stowable seat of any preceding claim, further comprising a contoured pad (380) coupled to an axially outer surface of the stretch material (112) of the contoured backrest (310).

6. The contoured stowable seat of any preceding claim, wherein the frame (114) of the contoured backrest (110; 310) is coupled to the housing (102) at the first position via a slidable joint, allowing the contoured backrest (110; 310) to slide relative to the housing (102) in response to the seat pan (108) pivoting into the deployed position.

7. The contoured stowable seat of any preceding claim, further comprising a headrest (106) coupled to the top of the housing (102).

8. The contoured stowable seat of any preceding claim, further comprising a seat restraint (190) coupled to the housing (102).

9. The contoured stowable seat of any preceding claim, wherein the frame (114) comprises a flex point (116) configured to bend in a direction away from the housing (102), in response to the seat pan (108) pivoting into the deployed position.

10. A method of operating the seat of any preceding claim, comprising:

pivoting the seat pan (108) into the deployed position, wherein in response to the seat pan (108) being in the deployed position the deployment lever (120) is configured to deploy the contoured backrest (110; 310) into the contoured shape; and

pivoting the seat pan (108) into the stowed position, wherein in response to the seat pan (108) being in the stowed position the deployment lever (120) is configured to allow the contoured backrest (110; 310) to form into a relaxed shape.

Patentansprüche

1. Umklappbarer Sitz (100; 400), Folgendes umfassend:

ein Gehäuse (102), eine Oberseite und eine Unterseite aufweisend;

eine Sitzschale (108), die schwenkbar mit dem Gehäuse (102) in einer Position zwischen der Oberseite und der Unterseite verbunden ist, wobei die Sitzschale (108) konfiguriert ist, um aus einer umgeklappten Position in eine ausgefahrene Position zu schwenken; und einen Ausfahrbel (120), ein erstes Ausfahrende (122) und ein zweites Ausfahrende (124) umfassend; **da-**

durch gekennzeichnet, dass der umklappbare Sitz (100; 400) profiliert ist und weiter Folgendes umfasst:

- eine profilierte Rückenlehne (110; 310), einen Rahmen (114) und ein elastisches Material (112) umfassend, wobei das elastische Material (112) mit dem Rahmen (114) verbunden ist und der Rahmen (114) eine axiale Außenkante des elastischen Materials (112) bestimmt und wobei der Rahmen (114) mit dem Gehäuse (102) in einer ersten Position nahe der Oberseite des Gehäuses (102) befestigt ist und in einer zweiten Position nahe der Stelle, wo die Sitzschale (108) mit dem Gehäuse (102) verbunden ist;

wobei das erste Ausfahrende (122) des Hebels (120) mit der Sitzschale (108) verbunden ist an einer Stelle nahe der Verbindung der Sitzschale (108) mit dem Gehäuse (102) und wobei das zweite Ausfahrende (124) konfiguriert ist, um den Rahmen (114) der profilierten Rückenlehne (110; 310) zu berühren als Reaktion auf das Ausfahren der Sitzschale (108) in die ausgefahrene Position, wobei auslöst wird, dass die profilierte Rückenlehne (110; 310) sich in eine profilierte Form aufrichtet.
2. Umklappbarer Sitz nach Anspruch 1, weiter eine Spannkordel (430) umfassend, die ein erstes Ende (432) und ein zweites Ende (434) aufweist, wobei das erste Ende (432) mit dem Gehäuse (102) verbunden ist und das zweite Ende (434) mit dem elastischen Material (112) der profilierten Rückenlehne (110; 310) verbunden ist.
3. Umklappbarer Sitz nach Anspruch 2, wobei als Reaktion auf das Schwenken der Sitzschale (108) in die ausgefahrene Position die Spannkordel (430) konfiguriert ist, um die profilierte Rückenlehne (110; 310) in eine zweite profilierte Form auszufahren durch Weitergeben der Spannung an eine Stelle, wo das zweite Ende (434) mit der profilierten Rückenlehne (110; 310) verbunden ist.
4. Profiliertes umklappbares Sitz nach einem der Ansprüche 1 bis 3, wobei die Sitzschale (108) und die profilierte Rückenlehne (110; 310) konfiguriert sind, um mindestens teilweise in dem Gehäuse (102) verstaubar zu sein als Reaktion auf das Befinden der Sitzschale (108) in der umgeklappten Position.
5. Profiliertes umklappbares Sitz nach einem der vorangehenden Ansprüche, ferner ein profiliertes Kissen (380) umfassend, das mit einer axialen Außenseite des elastischen Materials (112) der profilierten

Rückenlehne (310) verbunden ist.

6. Profiliertes umklappbares Sitz nach einem der vorangehenden Ansprüche, wobei der Rahmen (114) der profilierten Rückenlehne (110; 310) mit dem Gehäuse (102) in der ersten Position über eine verschiebbare Verbindung verbunden ist, wobei der profilierten Rückenlehne (110; 310) ermöglicht wird, sich in Bezug zu dem Gehäuse (102) zu verschieben als Reaktion auf das Schwenken der Sitzschale (108) in die ausgefahrene Position.
7. Profiliertes umklappbares Sitz nach einem der vorangehenden Ansprüche, weiter eine Kopfstütze (106) umfassend, die mit der Oberseite des Gehäuses (102) verbunden ist.
8. Profiliertes umklappbares Sitz nach einem der vorangehenden Ansprüche, ferner eine Sitzrückhaltevorrichtung (190) umfassend, die mit dem Gehäuse (102) verbunden ist.
9. Profiliertes umklappbares Sitz nach einem der vorangehenden Ansprüche, wobei der Rahmen (114) eine Biegestelle (116) umfasst, die konfiguriert ist, um sich in eine Richtung von dem Gehäuse (102) weg zu biegen als Reaktion auf das Schwenken der Sitzschale (108) in die ausgefahrene Position.

10. Verfahren zum Bedienen des Sitzes nach einem der vorangehenden Ansprüche, Folgendes umfassend:

Schwenken der Sitzschale (108) in die ausgefahrene Position, wobei als Reaktion auf das Befinden der Sitzschale (108) in der ausgefahrenen Position der Ausfahrhebel (120) konfiguriert ist, um die profilierte Rückenlehne (110; 310) in die profilierte Form zu bringen; und

Schwenken der Sitzschale (108) in die umgeklappte Position, wobei als Reaktion auf das Befinden der Sitzschale (108) in der umgeklappten Position der Ausfahrhebel (120) konfiguriert ist, um zu ermöglichen, dass die profilierte Rückenlehne (110; 310) eine entspannte Form bildet.

Revendications

1. Siège escamotable (100 ; 400), comprenant :

un boîtier (102) ayant une partie supérieure et une partie inférieure ;

une assise de siège (108) couplée de manière pivotante au boîtier (102) à une position entre la partie supérieure et la partie inférieure, dans lequel l'assise de siège (108) est configurée pour pivoter d'une position escamotée à une position déployée ; et un levier de déploiement

(120) ayant une première extrémité de déploiement (122) et une deuxième extrémité de déploiement (124) ; **caractérisé en ce que** le siège escamotable (100 ; 400) est profilé et comprend en outre :

un dossier profilé (110 ; 310) comprenant un châssis (114) et un matériau extensible (112), dans lequel le matériau extensible (112) est couplé au châssis (114) et le châssis (114) définit un bord axialement extérieur du matériau extensible (112), et dans lequel le châssis (114) est couplé au boîtier (102) à une première position proche de la partie supérieure du boîtier (102) et à une deuxième position proche de l'endroit où l'assise de siège (108) se couple au boîtier (102) ; dans lequel la première extrémité de déploiement (122) du levier (120) est couplée à l'assise de siège (108) à un endroit proche du couplage de l'assise de siège (108) au boîtier (102), et dans lequel la deuxième extrémité de déploiement (124) est configurée pour entrer en contact avec le châssis (114) du dossier profilé (110 ; 310) en réponse au fait que l'assise de siège (108) est dans la position déployée, amenant le dossier profilé (110 ; 310) à se déployer dans une forme profilée.

2. Siège escamotable selon la revendication 1, comprenant en outre un cordon de tension (430) ayant une première extrémité (432) et une deuxième extrémité (434), dans lequel la première extrémité (432) est couplée au boîtier (102) et la deuxième extrémité (434) est couplée au matériau extensible (112) du dossier profilé (110 ; 310).
3. Siège escamotable selon la revendication 2, dans lequel en réponse à l'assise de siège (108) pivotant dans la position déployée, le cordon de tension (430) est configuré pour déployer le dossier profilé (110 ; 310) dans une deuxième forme profilée par application de tension à un endroit où la deuxième extrémité (434) est couplée au dossier profilé (110 ; 310) .
4. Siège escamotable profilé selon l'une quelconque des revendications 1 à 3, dans lequel l'assise de siège (108) et le dossier profilé (110 ; 310) sont configurés pour s'escamoter au moins partiellement dans le boîtier (102) en réponse au fait que l'assise de siège (108) est dans la position escamotée.
5. Siège escamotable profilé selon une quelconque revendication précédente, comprenant en outre un coussin profilé (380) couplé à une surface axialement extérieure du matériau extensible (112) du dos-

sier profilé (310).

6. Siège escamotable profilé selon une quelconque revendication précédente, dans lequel le châssis (114) du dossier profilé (110 ; 310) est couplé au boîtier (102) à la première position via une articulation coulissante, permettant au dossier profilé (110 ; 310) de coulisser par rapport au boîtier (102) en réponse au fait que l'assise de siège (108) pivote dans la position déployée.
7. Siège escamotable profilé selon une quelconque revendication précédente, comprenant en outre un appui-tête (106) couplé à la partie supérieure du boîtier (102).
8. Siège escamotable profilé selon une quelconque revendication précédente, comprenant en outre un dispositif de retenue de siège (190) couplé au boîtier (102).
9. Siège escamotable profilé selon une quelconque revendication précédente, dans lequel le châssis (114) comprend un point de flexion (116) configuré pour se plier dans une direction s'éloignant du boîtier (102), en réponse au fait que l'assise de siège (108) pivote dans la position déployée.
10. Procédé de fonctionnement du siège selon une quelconque revendication précédente, comprenant :

le pivotement de l'assise de siège (108) dans la position déployée, dans lequel en réponse au fait que l'assise de siège (108) est dans la position déployée, le levier de déploiement (120) est configuré pour déployer le dossier profilé (110 ; 310) dans la forme profilée ; et le pivotement de l'assise de siège (108) dans la position escamotée, dans lequel en réponse au fait que l'assise de siège (108) est dans la position escamotée, le levier de déploiement (120) est configuré pour permettre au dossier profilé (110 ; 310) de se former dans une forme relâchée.

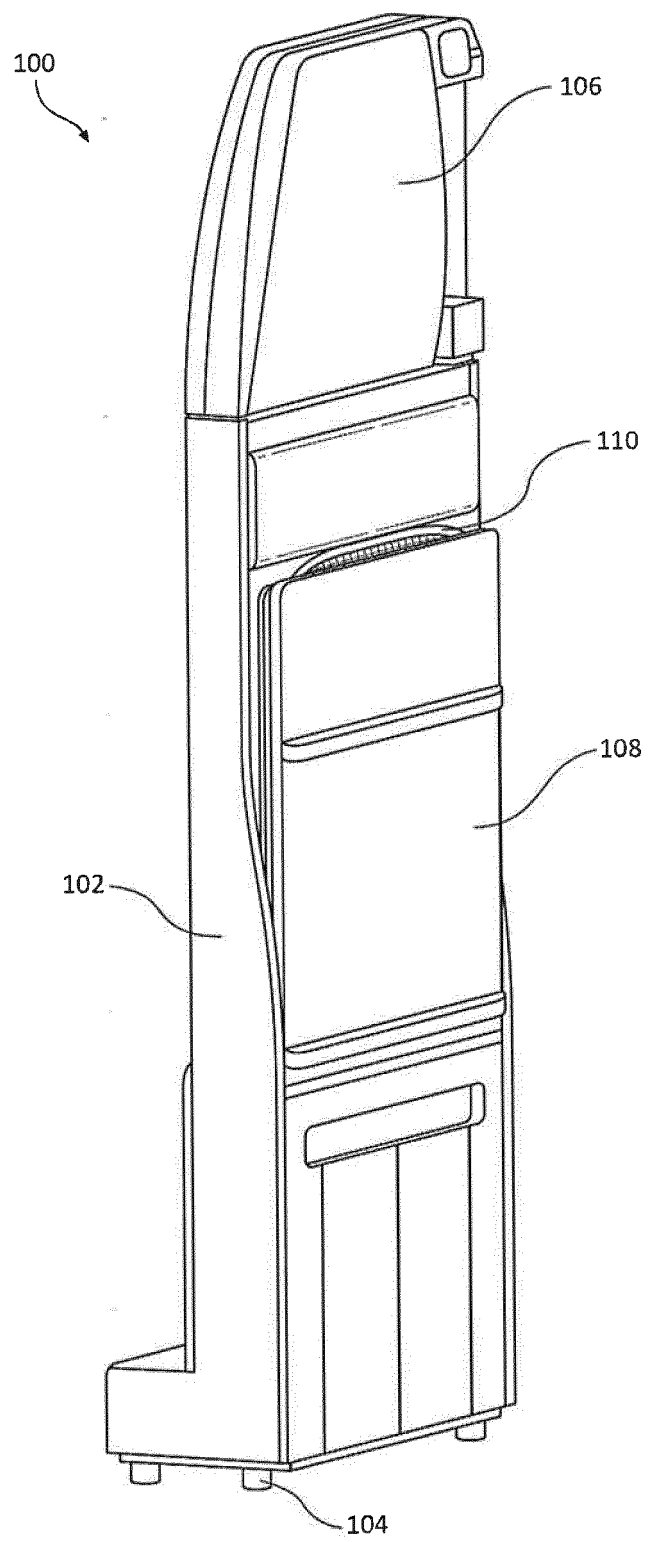


FIG. 1A

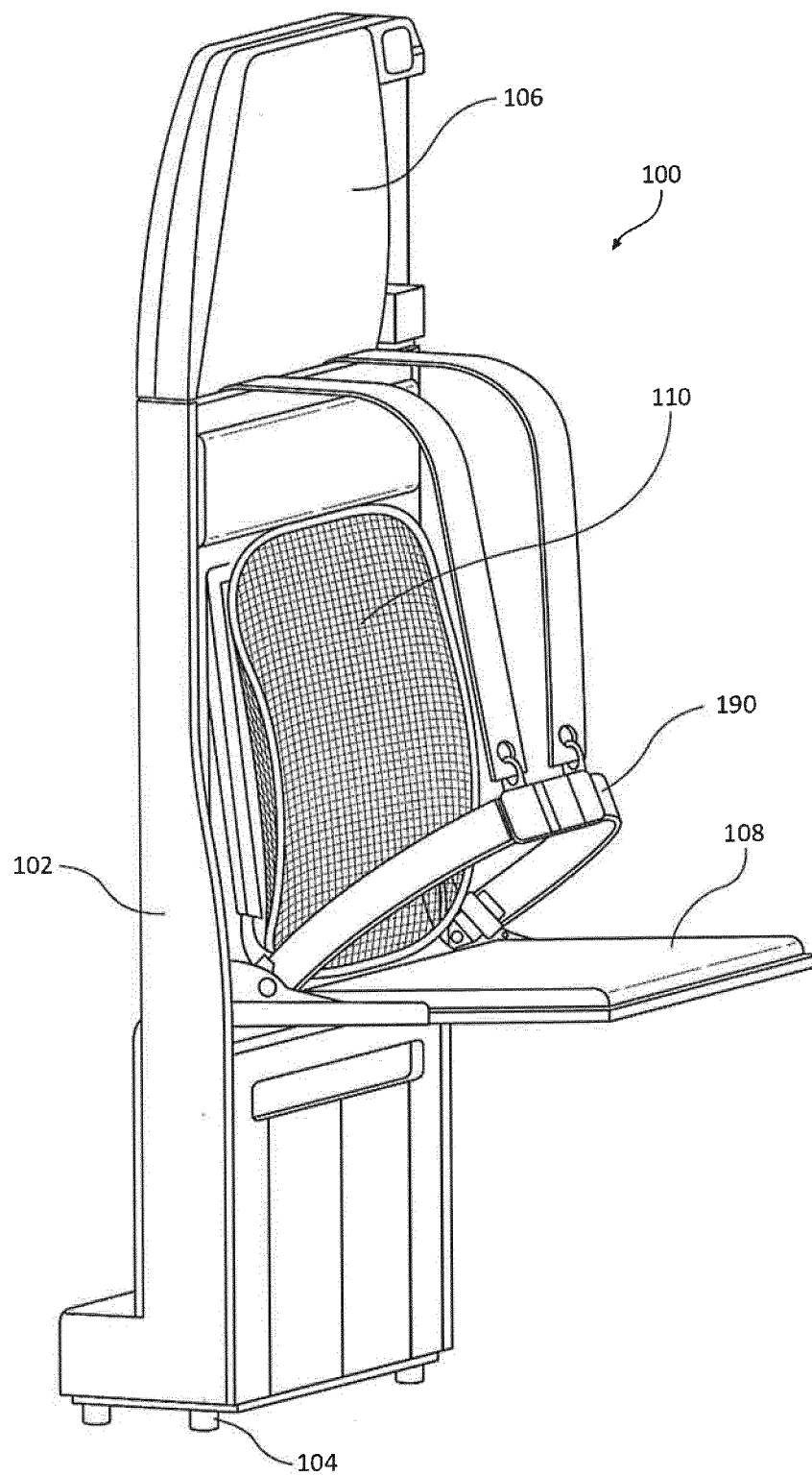


FIG. 1B

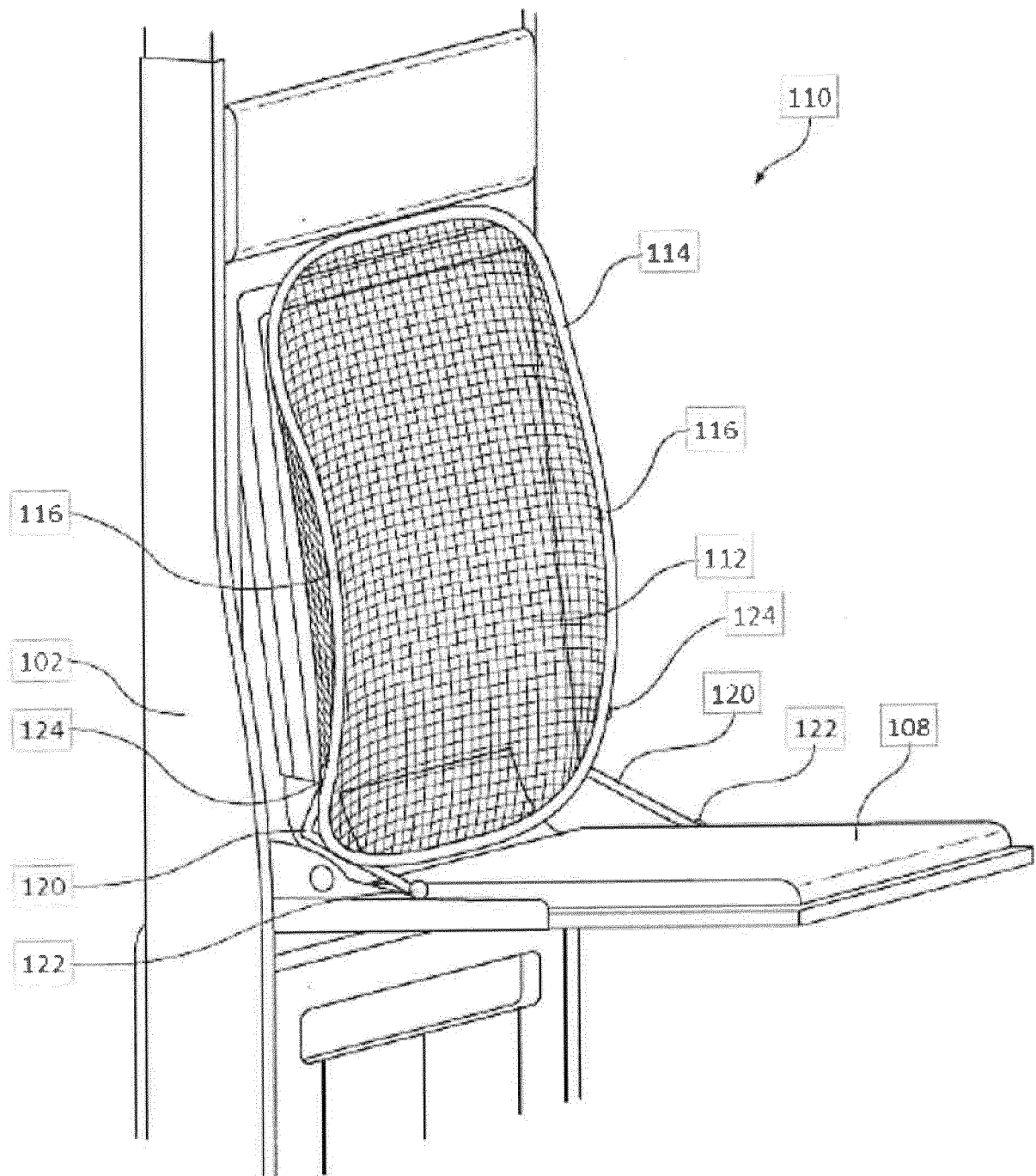


FIG. 2

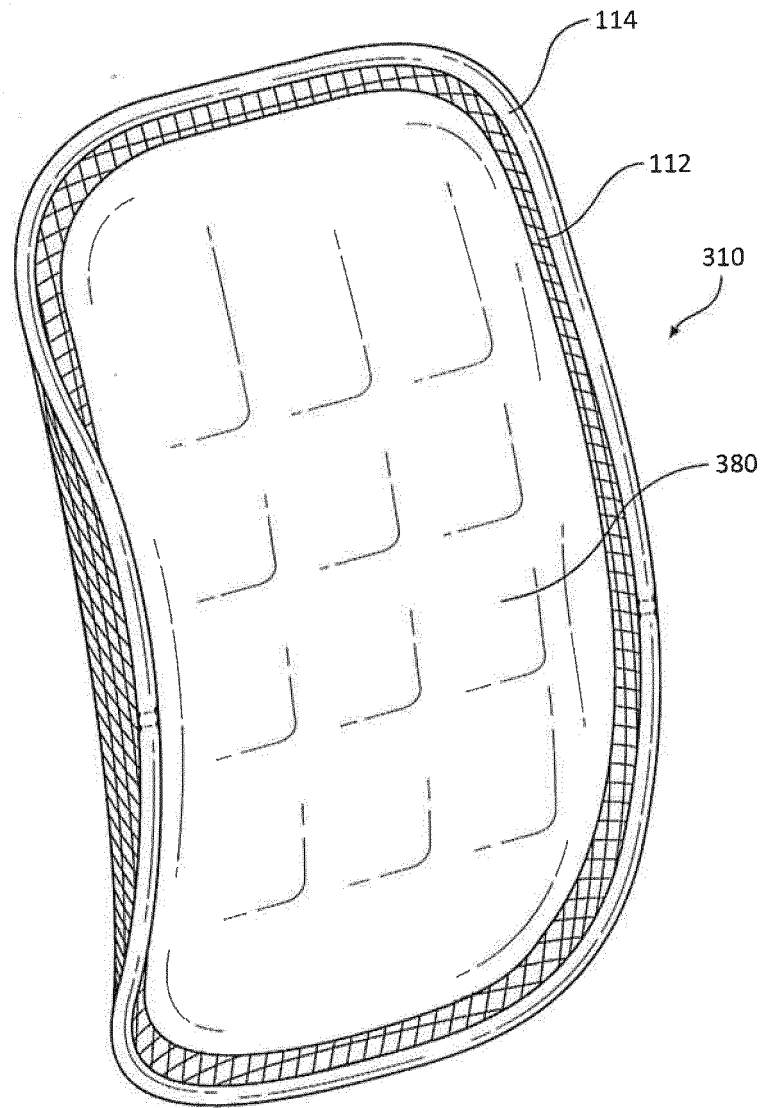


FIG. 3

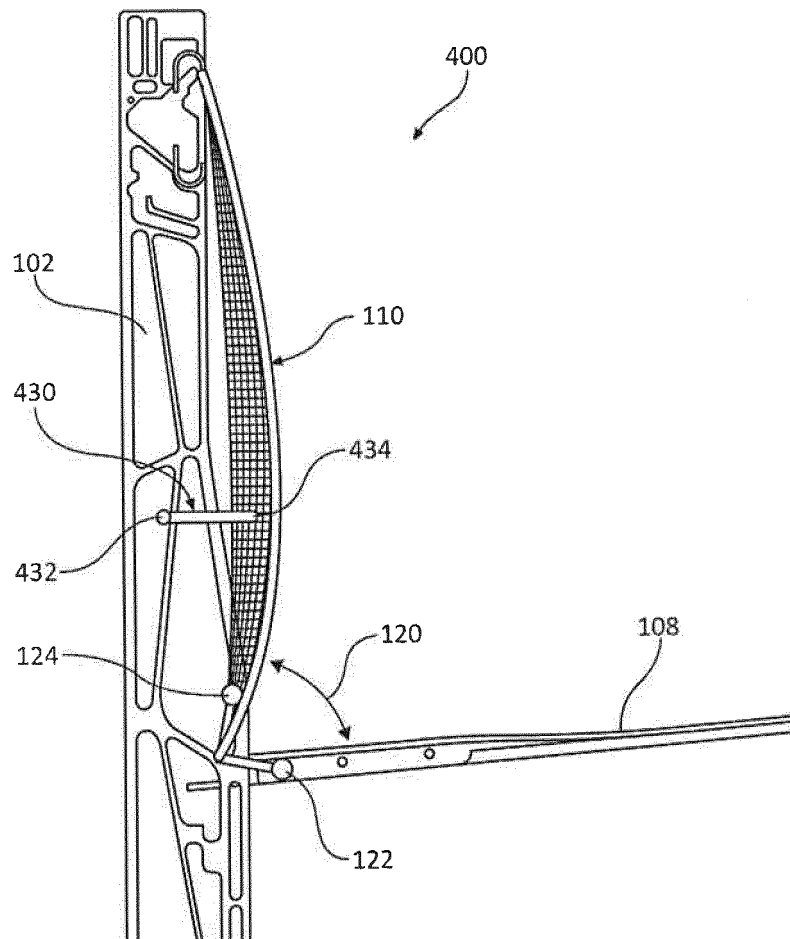


FIG. 4

REFERENCES CITED IN THE DESCRIPTION

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Patent documents cited in the description

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- US 4460215 A [0004]